

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. **(Previously Presented)** A glass having a SOC of about 1-2, a CR of about 3 or less and a SR of about 5 or less, comprising in mole percent based on oxide:

SiO ₂	55-70
PbO	30-38
Na ₂ O	>0-4.5
K ₂ O	0-2.5

>0 - 5% Al₂O₃,

>0 - 5% ZrO₂, and

essentially free of TiO₂.

2. **(Previously Presented)** A glass according to claim 1, comprising in mole percent based on oxide:

Al ₂ O ₃	0.1 - 5.0
ZrO ₂	0.1 - 5.0
Sum Al ₂ O ₃ + ZrO ₂	>0-8

3. **(Original)** A glass according to claim 1 further comprising in mole percent based on oxide:

ZnO	0-5.0
As ₂ O ₃	>0-0.4

4. **(Previously Presented)** A glass having a SOC of less than about 1, a CR of about 4 or less, and a SR of about 5 or less, and comprising in mole percent based on oxide:

SiO ₂	49-60
PbO	33-45
Na ₂ O	>0-3.5
K ₂ O	0-2.5

>0 - 5% Al₂O₃,

>0 - 5% ZrO₂, and

essentially free of TiO₂.

5. (Previously Presented) A glass according to claim 4, comprising in mole percent based on oxide:

Al ₂ O ₃	0.1-5.0
ZrO ₂	0.1-5.0
Sum Al ₂ O ₃ + ZrO ₂	>0-8

6. (Original) A glass according to claim 4 further comprising in mole percent based on oxide:

ZnO	0-5.0
As ₂ O ₃	>0-0.4

7. (Previously Presented) A glass having a SOC of about 1-2, a CR of about 3 or less, and a SR of about 5 or less, and made by adding together and melting, in mole percent:

SiO ₂	55-<70
PbO	30-38
Na ₂ O	>0-4.5
K ₂ O	0-2.5

>0 - 5% Al_2O_3 ,
>0 - 5% ZrO_2 , and
essentially free of TiO_2 .

8. (Previously Presented) A glass having a SOC of less than about 1, a CR of about 4 or less, and a SR of about 5 or less, and made by adding together and melting, in mole percent:

SiO_2	49-60
PbO	33-45
Na_2O	>0-3.5
K_2O	0-2.5

>0 - 5% Al_2O_3 ,
>0 - 5% ZrO_2 , and
essentially free of TiO_2 .

9. (Previously Presented) A glass having a SOC of less than 2, a CR of 3 or less, and a SR of 5 or less, and comprising in mole percent based on oxide:

SiO_2	49-<70
PbO	30-45
Na_2O	0-5
K_2O	0-3
Sum $\text{Na}_2\text{O} + \text{K}_2\text{O}$	>0-5
Sum $\text{B}_2\text{O}_3 + \text{Al}_2\text{O}_3 + \text{Y}_2\text{O}_3 + \text{La}_2\text{O}_3 + \text{ZnO} + \text{MoO}_3 + \text{TaO}_5 + \text{ZrO}_2 + \text{WO}_3 + \text{In}_2\text{O}_3$	0-10

>0 - 5% Al_2O_3 ,
>0 - 5% ZrO_2 , and
essentially free of TiO_2 .

10. (Previously Presented) A glass having a SOC of 1-2, a CR of 3 or less, and a SR of 5 or less, and comprising in mole percent based on oxide:

SiO ₂	49-70
PbO	30-45
Na ₂ O	0-5
K ₂ O	0-3
Sum Na ₂ O + K ₂ O	>0-5
Sum ZrO ₂ + Al ₂ O ₃	>0-8

>0 - 5% Al₂O₃,

>0 - 5% ZrO₂, and

essentially free of TiO₂.

11. (Canceled)

12. (Previously Presented) A glass having a SOC of 1-2, a CR of 3 or less, and a SR of 5 or less, and made by adding together and melting, in mole percent:

SiO ₂	49-70
PbO	30-45
Na ₂ O	0-5
K ₂ O	0-3
Sum Na ₂ O + K ₂ O	>0-5
Sum B ₂ O ₃ + Al ₂ O ₃ + Y ₂ O ₃ + La ₂ O ₃ + ZnO + MoO ₃ + TaO ₅ + ZrO ₂ + WO ₃ + In ₂ O ₃	0-5

>0 - 5% Al₂O₃,

>0 - 5% ZrO₂, and

essentially free of TiO₂.

13-18. (Canceled)

19. (Original) A glass according to claim 2 further comprising in mole percent based on oxide:

ZnO	0-5.0
As ₂ O ₃	>0-0.4

20. (Previously Presented) A glass according to claim 1, wherein the glass comprises in mole percent based on oxide 0.1 - 5% Al₂O₃ or ZrO₂.

21. (Previously Presented) A glass according to claim 4, wherein the glass comprises in mole percent based on oxide 0.1 - 5% Al₂O₃ or ZrO₂.

22. (Previously Presented) A glass according to claim 7, wherein the glass comprises in mole percent based on oxide 0.1 - 5% Al₂O₃ or ZrO₂.

23. (Previously Presented) A glass according to claim 8, wherein the glass comprises in mole percent based on oxide 0.1 - 5% Al₂O₃ or ZrO₂.

24. (Previously Presented) A glass according to claim 9, wherein the glass comprises in mole percent based on oxide 0.1 - 5% Al₂O₃ or ZrO₂.

25. (Previously Presented) A glass according to claim 10, wherein the glass comprises in mole percent based on oxide 0.1 - 5% Al₂O₃ or ZrO₂.

26. (Previously Presented) A glass according to claim 12, wherein the glass comprises in mole percent based on oxide 0.1 - 5% Al₂O₃ or ZrO₂.

27. (Previously Presented) An optical glass, comprising in mole percent based on oxide:

SiO ₂	55-<70
PbO	30-38
Na ₂ O	>0-4.5
K ₂ O	0-2.5

>0 - 5% Al₂O₃,>0 - 5% ZrO₂, andessentially free of TiO₂.**28. (Previously Presented)** An optical glass, comprising in mole percent based on oxide:

SiO ₂	49-60
PbO	33-45
Na ₂ O	>0-3.5
K ₂ O	0-2.5

>0 - 5% Al₂O₃,>0 - 5% ZrO₂, andessentially free of TiO₂.**29. (Previously Presented)** An optical glass made by adding together and melting, in mole percent:

SiO ₂	55-<70
PbO	30-38
Na ₂ O	>0-4.5
K ₂ O	0-2.5

>0 - 5% Al_2O_3 ,
 >0 - 5% ZrO_2 , and
 essentially free of TiO_2 .

30. (Currently Amended) An optical glass made by adding together and melting, in mole percent:

SiO_2	49-60 49-70
PbO	33-45
Na_2O	>0-3.5
K_2O	0-2.5

>0 - 5% Al_2O_3 ,
 >0 - 5% ZrO_2 , and
 essentially free of TiO_2 .

31. (Previously Presented) An optical glass, comprising in mole percent based on oxide:

SiO_2	49-70
PbO	30-45
Na_2O	0-5
K_2O	0-3
Sum $\text{Na}_2\text{O} + \text{K}_2\text{O}$	>0-5
Sum $\text{B}_2\text{O}_3 + \text{Al}_2\text{O}_3 + \text{Y}_2\text{O}_3 + \text{La}_2\text{O}_3 + \text{ZnO} + \text{MoO}_3 + \text{TaO}_5 + \text{ZrO}_2 + \text{WO}_3 + \text{In}_2\text{O}_3$	0-10

>0 - 5% Al_2O_3 ,
 >0 - 5% ZrO_2 , and
 essentially free of TiO_2 .

32. (Previously Presented) An optical glass, comprising in mole percent based on oxide:

SiO ₂	49-<70
PbO	30-45
Na ₂ O	0-5
K ₂ O	0-3
Sum Na ₂ O + K ₂ O	>0-5
Sum ZrO ₂ + Al ₂ O ₃	>0-8

>0 - 5% Al₂O₃,>0 - 5% ZrO₂, andessentially free of TiO₂.**33. (Previously Presented)** An optical glass made by adding together and melting, in mole percent:

SiO ₂	49-<70
PbO	30-45
Na ₂ O	0-5
K ₂ O	0-3
Sum Na ₂ O + K ₂ O	>0-5
Sum B ₂ O ₃ + Al ₂ O ₃ + Y ₂ O ₃ + La ₂ O ₃ + ZnO + MoO ₃ + TaO ₅ + ZrO ₂ + WO ₃ + In ₂ O ₃	0-5

>0 - 5% Al₂O₃,>0 - 5% ZrO₂, andessentially free of TiO₂.--